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ABSTRACT

Educational planners face a difficult task of providing quality education to large masses of urban students in the face of decreased revenues, soaring costs, shifting populations, and changing educational programs. Project Simu-School is intended to provide an action-oriented organizational and functional framework necessary for tackling the problems of modern day education planning. Its main objects are to improve the state-of-the-art in educational planning by encouraging research and development; updgrade planning in local areas; improve knowledge and skills of educational planners; investigate alternative strategies for specific planning problems; provide easy access to information about planning; and promote wider community involvement in the planning process. Federal funding has enabled five local education agencies to become components in the development of the national project. The locations and tasks of these agencies are cited. A detailed report of the Chicago component's first year activities and planned program is presented. (Page 33 may reproduce poorly.) (Author/MLF)

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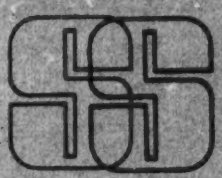
SIMU-SCHOOL: CENTER FOR URBAN EDUCATIONAL PLANNING



CHICAGO PUBLIC SCHOOLS

JAMES F. REDMOND,
GENERAL SUPERINTENDENT

EA 005 330

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U.S. DEPARTMENT OF HEALTH
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

SIMU-SCHOOL:

CENTER FOR URBAN EDUCATIONAL PLANNING

FUNDED BY THE
DEPARTMENT OF HEALTH, EDUCATION,
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JOSEPH P. HANNON, ASSISTANT SUPERINTENDENT
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CHICAGO BOARD OF EDUCATION
228 NORTH LASALLE
CHICAGO, ILLINOIS

APRIL 1973

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ACKNOWLEDGEMENTS

THE BASIC IDEA BEHIND SIMU-SCHOOL WAS CONCEIVED BY A TASK FORCE OF THE NATIONAL COMMITTEE ON ARCHITECTURE OF THE AMERICAN INSTITUTE OF ARCHITECTS WORKING IN CONJUNCTION WITH A GROUP OF EDUCATIONAL CONSULTANTS. ITS ASSISTANCE IS GRATEFULLY ACKNOWLEDGED.

OUR SINCERE APPRECIATION IS EXPRESSED TO MR. DONALD F. BURR AND DES. JOHN L. CANEDY, WILLIAM CHASE, DUANE F. GARDNER, AND DONALD J. LEU WHO GAVE GENEROUSLY OF THEIR TIME TO THE DEVELOPMENT OF THE PROJECT.

INITIATION OF THE CHICAGO COMPONENT WAS GREATLY FACILITATED BY THE ASSISTANCE PROVIDED BY MR. JAMES G. MOFFAT, ASSISTANT SUPERINTENDENT, GOVERNMENT FUNDED PROGRAMS, AND HIS STAFF.

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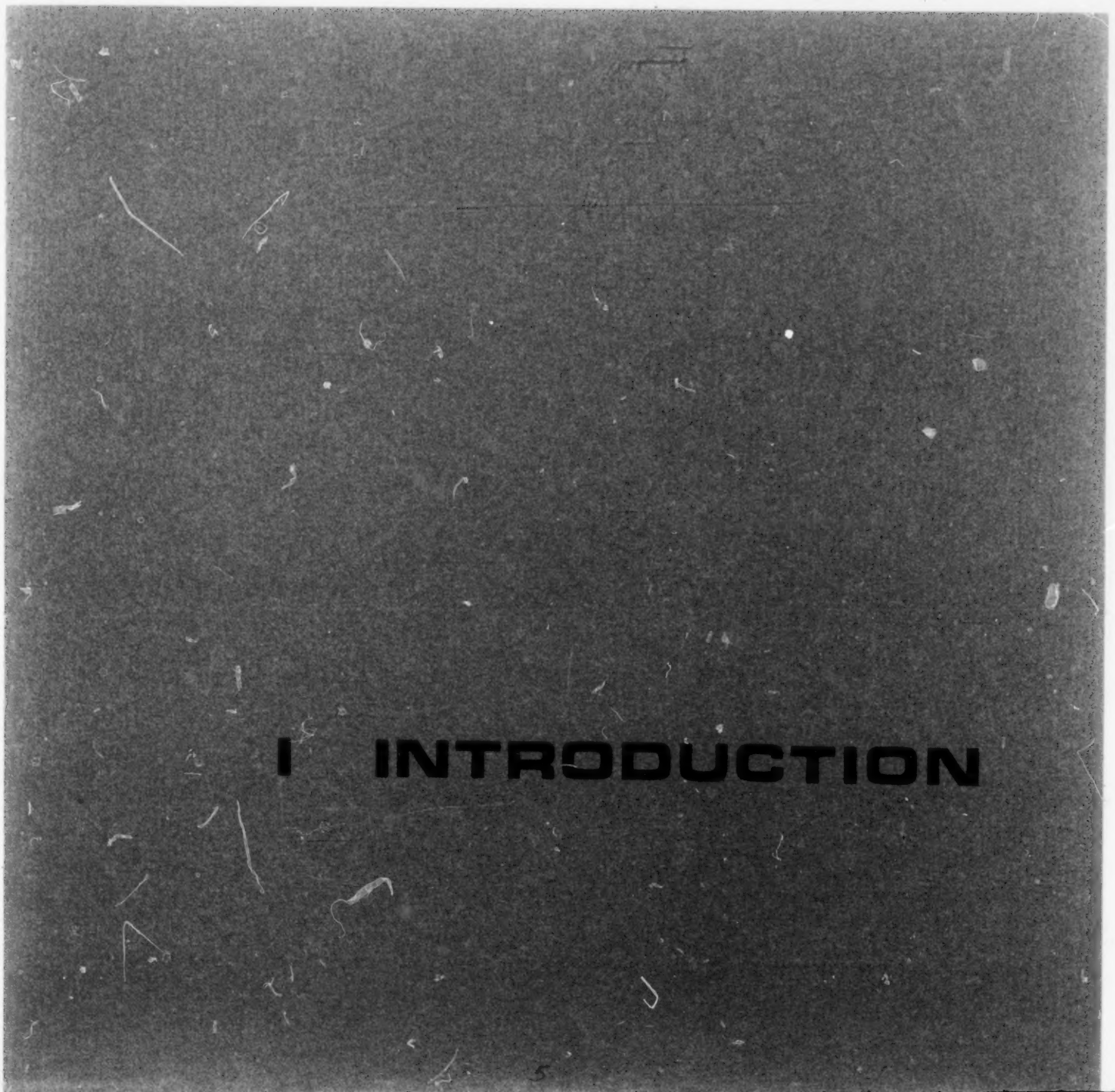

I INTRODUCTION

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MODERN DAY SCHOOLS ARE EXPECTED TO DO A LOT MORE THAN JUST PROVIDE STUDENTS WITH BASIC INFORMATION IN SELECTED ACADEMIC SUBJECTS. TODAY, SCHOOLS ARE ASKED TO PROVIDE STUDENTS WITH KNOWLEDGE TO ENABLE THEM TO DEAL WITH AN INCREASINGLY COMPLEX SOCIETY, TO PREPARE THEM FOR SPECIALIZED FIELDS OF WORK, AND TO ADVANCE HUMAN UNDERSTANDING BY BRINGING TOGETHER STUDENTS WITH DIFFERENT BACKGROUNDS.

IN A SOCIETY THAT IS RAPIDLY BECOMING URBANIZED AND CREATING FAR GREATER DEMANDS ON ITS CITIZENS THAN EVER BEFORE, IT IS UNDERSTANDABLE THAT SCHOOLS ARE CALLED UPON TO FULFILL A VARIETY OF NEW FUNCTIONS. HOWEVER, IT MUST BE RECOGNIZED THAT EDUCATIONAL PLANNERS FACE AN EXTREMELY DIFFICULT TASK OF PROVIDING QUALITY EDUCATION TO LARGE MASSES OF URBAN STUDENTS IN THE FACE OF DECREASED REVENUES, SOARING COSTS, SHIFTING POPULATIONS, AND CHANGING EDUCATIONAL PROGRAMS.

SUCH A CHALLENGE REQUIRES THAT A FAR GREATER EMPHASIS BE PLACED ON PLANNING FOR SCHOOLS THAN HAS BEEN THE CASE TO DATE, AND NECESSITATES THE DEVELOPMENT OF IMPROVED TECHNIQUES SPECIALLY DESIGNED FOR EDUCATIONAL PLANNING.

PROJECT SIMU-SCHOOL IS INTENDED TO PROVIDE AN ACTION ORIENTED ORGANIZATIONAL AND FUNCTIONAL FRAMEWORK NECESSARY FOR TACKLING THE PROBLEMS OF MODERN DAY EDUCATIONAL PLANNING.

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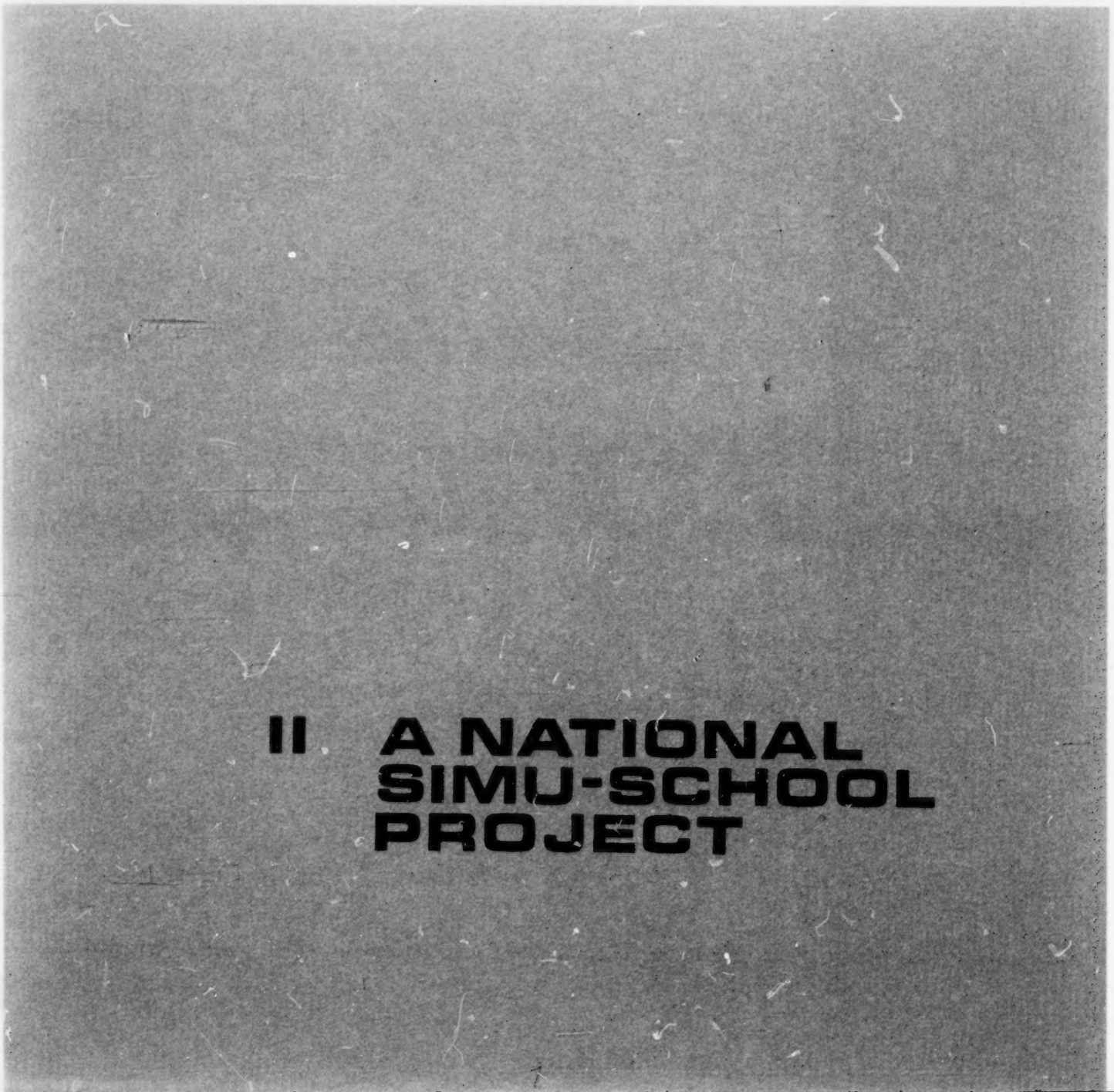

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PROJECT SIMU-SCHOOL WAS CONCEIVED BY THE COMMITTEE ON ARCHITECTURE IN EDUCATION OF THE AMERICAN INSTITUTE OF ARCHITECTS IN COOPERATION WITH THE COUNCIL OF EDUCATIONAL FACILITY PLANNERS (CEFP).

ITS MAIN OBJECTIVES ARE:

- TO IMPROVE THE STATE-OF-THE-ART IN EDUCATIONAL PLANNING BY ENCOURAGING RESEARCH AND DEVELOPMENT.
- TO UPGRADE PLANNING IN LOCAL AREAS.
- TO IMPROVE KNOWLEDGE AND SKILLS OF EDUCATIONAL PLANNERS.
- TO INVESTIGATE ALTERNATIVE STRATEGIES FOR SPECIFIC PLANNING PROBLEMS.
- TO PROVIDE EASY ACCESS TO INFORMATION ABOUT PLANNING.
- TO PROMOTE WIDER COMMUNITY INVOLVEMENT IN THE PLANNING PROCESS.

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A NATIONAL ADVISORY BOARD COMPRISED OF NINE REPRESENTATIVES FROM A VARIETY OF FIELDS HAS BEEN FORMED TO PROVIDE OVERALL DIRECTION AND TO DETERMINE POLICY FOR THE NATIONAL PROJECT.

THE MEMBERS ARE:

- MR. DONALD F. BURR, FAIA; CHAIRMAN, TACOMA, WASHINGTON
- MR. JAMES A. CLUTTS, AIA; DALLAS, TEXAS
- DR. JOSEPH P. HANNON; CHICAGO, ILLINOIS
- DR. GLENN HOFFMANN; SAN JOSE, CALIFORNIA
- MR. MARVIN R.A. JOHNSON, FAIA; RALEIGH, NORTH CAROLINA
- MR. STERLING S. KEYES; BALTIMORE, MARYLAND
- MR. DEAN MACRIS; SAN FRANCISO, CALIFORNIA
- DR. WELDON S. WELLS; DALLAS, TEXAS
- DR. BURTON WOLIN; BROCKPORT, NEW YORK

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A NETWORK OF COMPONENTS

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- THE NATIONAL PROJECT IS COMPRISED OF A NETWORK OF COMPONENT CENTERS LOCATED IN DIFFERENT PARTS OF THE COUNTRY.

- FUNDING FROM THE U.S. OFFICE OF EDUCATION, MADE AVAILABLE UNDER TITLE III, SECTION 306, OF THE ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965, ENABLED LOCAL EDUCATION AGENCIES IN CHICAGO, ILLINOIS, SANTA CLARA COUNTY, CALIFORNIA AND DALLAS, TEXAS TO BECOME COMPONENTS IN THE DEVELOPMENT OF THE NATIONAL PROJECT.

- ADDITIONAL COMPONENTS HAVE BEEN INITIATED AT OHIO STATE UNIVERSITY, COLUMBUS, OHIO, AND AT THE STATE DEPARTMENT OF PUBLIC INSTRUCTION, OLYMPIA, WASHINGTON. THEY ARE CURRENTLY SEEKING OUTSIDE FUNDING.

- PLANS ARE UNDERWAY TO DEVELOP A NATIONAL CENTER FOR EDUCATIONAL PLANNING IN CONJUNCTION WITH CEFP.

- PROVISION HAS ALSO BEEN MADE TO INCORPORATE AGENCIES WHO WISH TO TAKE ADVANTAGE OF PROJECT SERVICES WITHOUT ANY COMMITMENT TO PARTICIPATE IN THE RESEARCH, DEVELOPMENT, AND DISSEMINATION FUNCTIONS OF THE PROJECT.

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CHICAGO COMPONENT

DALLAS COMPONENT

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- THE OVERALL OBJECTIVE IS TO ESTABLISH A PLANNING CENTER DESIGNED TO INVESTIGATE PROBLEMS OF URBAN EDUCATIONAL PLANNING AND TO ASSIST LOCAL PLANNING ENDEAVORS.

- THE MAJOR OBJECTIVE IS TO DEVELOP IMPROVED TOOLS FOR EDUCATIONAL PLANNING, INCLUDING COMPUTER MODELS EXPRESSED IN SUCH FORMS AS SIMULATION MODELS, MATHEMATICAL MODELS, RESOURCE ALLOCATION MODELS, AND MODELS OF EDUCATIONAL SUPPORT SERVICES.

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NATIONAL CENTER COMPONENT

OHIO STATE COMPONENT

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- THE MAIN ROLE OF THE NATIONAL PLANNING CENTER IS TO CO-ORDINATE THE ACTIVITIES OF ALL SIMU-SCHOOL COMPONENTS IN ORDER TO MAXIMIZE THE EFFECTIVENESS AND EFFICIENCY OF THEIR EFFORTS AND TO OPERATE A PLANNING ASSISTANCE CENTER OF NATIONAL SCOPE.

- THE MAJOR THRUST IS TO ADAPT, REFINE, AND TEST A TOTAL COMPREHENSIVE EDUCATIONAL PLANNING MODEL WITH EMPHASIS ON PROBLEMS RELATED TO "NEW TOWN" DEVELOPMENTS.

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OLYMPIA COMPONENT

SANTA CLARA COUNTY COMPONENT

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- THE MAIN OBJECTIVE IS TO ESTABLISH A PROTOTYPE STATE EDUCATIONAL PLANNING CENTER UNDER THE AUSPICES OF THE OFFICE OF THE SUPERINTENDENT OF PUBLIC INSTRUCTION FOR THE STATE OF WASHINGTON. THE CENTER WILL ADDRESS ITSELF TO COMPREHENSIVE STATE-WIDE PLANNING INCLUDING SUCH ASPECTS AS NEEDS ASSESSMENT, PROGRAM PLANNING, AND FACILITIES PLANNING.

- „THE SANTA CLARA COUNTY COMPONENT SERVES AN "INTERMEDIATE UNIT" ENCOMPASSING URBAN AS WELL AS RURAL AREAS. THE MAIN OBJECTIVE IS TO PROVIDE ASSISTANCE TO LOCAL SCHOOL DISTRICTS AND TO COORDINATE THE ASSISTANCE TO BE GIVEN BY VARIOUS PLANNING AGENCIES IN THE COUNTY.

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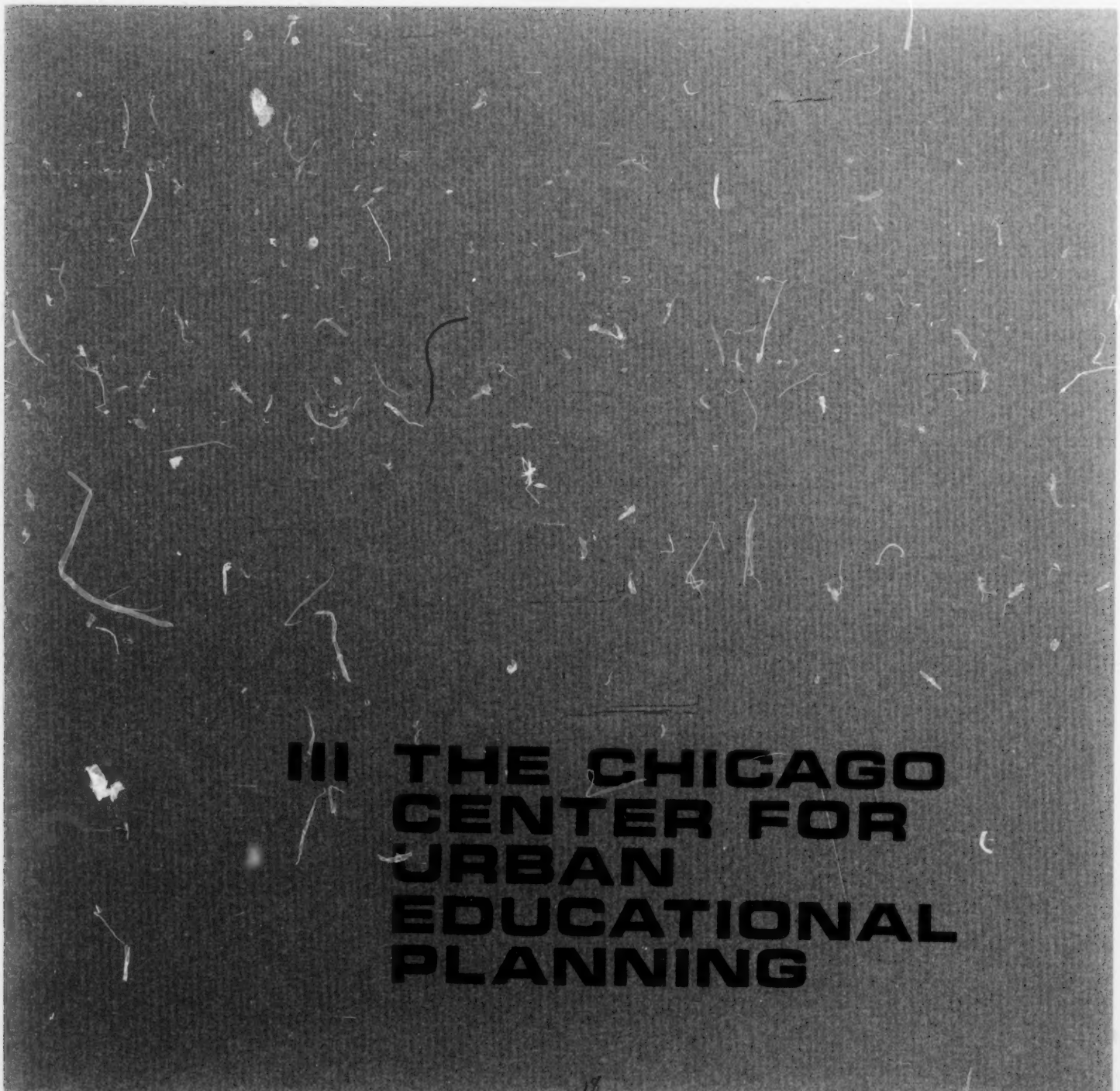

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THE PROPOSED PLANNING CENTER FOR CHICAGO IS DESIGNED TO BRING A VARIETY OF PEOPLE ··· EDUCATORS, TEACHERS, URBAN PLANNERS, ARCHITECTS, PARENTS, AND OTHER CONCERNED CITIZENS ··· TOGETHER IN A JOINT EFFORT TO PLAN FOR NEW FORMS OF EDUCATION IN THEIR COMMUNITY.

INITIALLY, EMPHASIS IS PLACED ON FACILITIES PLANNING, BUT THE SCOPE WILL BE BROADENED TO INCORPORATE OTHER ASPECTS OF EDUCATIONAL PLANNING AS THE PROJECT DEVELOPS.

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RESEARCH AND DEVELOPMENT

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- DEVELOPMENT AND EVALUATION OF NEW PROCEDURES AND TECHNIQUES FOR EDUCATIONAL PLANNING:
  - COST BENEFIT ANALYSIS OF ALTERNATIVE FACILITY SOLUTIONS
  - SIMULATION
  - MATHEMATICAL PROGRAMMING
  - SYSTEMS ANALYSIS

- APPLIED AND THEORETICAL RESEARCH IN SUCH AREAS AS:
  - OPTIMAL LOCATION OF SCHOOLS
  - OPTIMAL ATTENDANCE ZONING
  - ENROLLMENT PROJECTIONS
  - INTERIOR DESIGN AND LAYOUT
  - RESOURCE ALLOCATION

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INVESTIGATION OF ALTERNATIVE STRATEGIES IN ACTUAL PLANNING PROJECTS

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- ALTERNATIVE STRATEGIES FOR DESEGREGATION:
  - REDISTRICTING, PAIRING, CLUSTERING
  - TRANSFER PROGRAMS
  - MAGNET SCHOOLS

- ALTERNATIVE FACILITY SOLUTIONS:
  - SCHOOLS IN PARKS
  - LEASED SPACE
  - MOBILE UNITS
  - SHARED FACILITIES
  - YEAR-ROUND SCHOOLS
  - EXTENDED SCHOOL DAY
  - MODERNIZATION OF EXISTING FACILITIES

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COMMUNITY INVOLVEMENT

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- SURVEY AND ASSESSMENT OF COMMUNITY INVOLVEMENT IN MAJOR CITIES ACROSS THE NATION.
- CASE STUDIES OF CONTROVERSIAL PLANNING DECISIONS,
- INVESTIGATION OF EQUITY CONSIDERATIONS IN PLANNING.
- WORKSHOPS FOR COMMUNITY MEMBERS, INDUSTRY REPRESENTATIVES, ARCHITECTS AND PROSPECTIVE STAFF FOR EACH SCHOOL FACILITY WHILE IT IS IN THE PLANNING STAGE.
- EVALUATION OF ALTERNATIVE "COMMUNICATION MODELS" FOR CITIZEN INVOLVEMENT:
  - SIMULATION GAMES.
  - CHARETTES
  - WORKSHOPS AND SEMINARS
  - DELPHIS
  - PUBLIC MEETINGS

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TRAINING CENTER FOR PLANNERS

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THE CENTER WOULD HELP TRAIN PLANNERS AND FUTURE PLANNERS:

- ON-THE-JOB TRAINING FOR FACILITY PLANNING UNIVERSITY INTERNS, COMBINED WITH COURSE WORK OFFERED FOR CREDIT IN COOPERATION WITH LOCAL UNIVERSITIES.
- WORKSHOPS ORGANIZED TO ORIENT STAFF ABOUT TO OCCUPY INNOVATIVE FACILITIES OR TO TRAIN STAFF TO UNDERSTAND AND EFFECTIVELY UTILIZE TECHNOLOGICAL INNOVATIONS.
- WORKSHOPS FOR ORIENTING TEACHERS, PLANNERS, ADMINISTRATORS, AND COMMUNITY MEMBERS TO THE LATEST PLANNING TECHNIQUES.
- WORKSHOPS EXPLORING WAYS TO INCREASE COOPERATION BETWEEN THE LOCAL SCHOOL SYSTEM AND VARIOUS PUBLIC AGENCIES.
- WORKSHOPS FOR SCHOOL DISTRICT STAFF AND BUSINESS AND INDUSTRY REPRESENTATIVES TO EXPLORE MUTUAL BENEFITS OF JOINT PLANNING AND COOPERATIVE VENTURES---CONTRACT TEACHING, ACCOUNTABILITY CONCEPTS, DESIGN OF INNOVATIVE FURNITURE AND EQUIPMENT, ETC.

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INFORMATION
RESOURCE
CENTER

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- A SELECT LIBRARY OF PUBLISHED MATERIAL ON EDUCATIONAL PLANNING.
- PLANNING SUMMARIES AND RESEARCH REPORTS ON LATEST EXPERIMENTAL PROJECTS.
- VISUAL AID MATERIAL.
- A MANAGEMENT INFORMATION SYSTEM COMPRISED OF CENSUS DATA, SCHOOL AND STUDENT DATA, FACILITY INVENTORY, ETC.

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DISSEMINATION

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- REPORTS ON RESEARCH AND DEVELOPMENTAL WORK CARRIED OUT BY THE PLANNING CENTER IN CHICAGO, TOGETHER WITH ANY OTHER INFORMATION ACQUIRED BY THE CENTER AND DEEMED POTENTIALLY USEFUL TO OTHER SCHOOL SYSTEMS, WILL BE DISSEMINATED AT THE NATIONAL LEVEL.

- AN ACTIVE PROGRAM OF DISSEMINATION WILL BE PURSUED AT THE LOCAL LEVEL TO INFORM THE PUBLIC ABOUT VARIOUS ACTIVITIES OF THE PLANNING CENTER.

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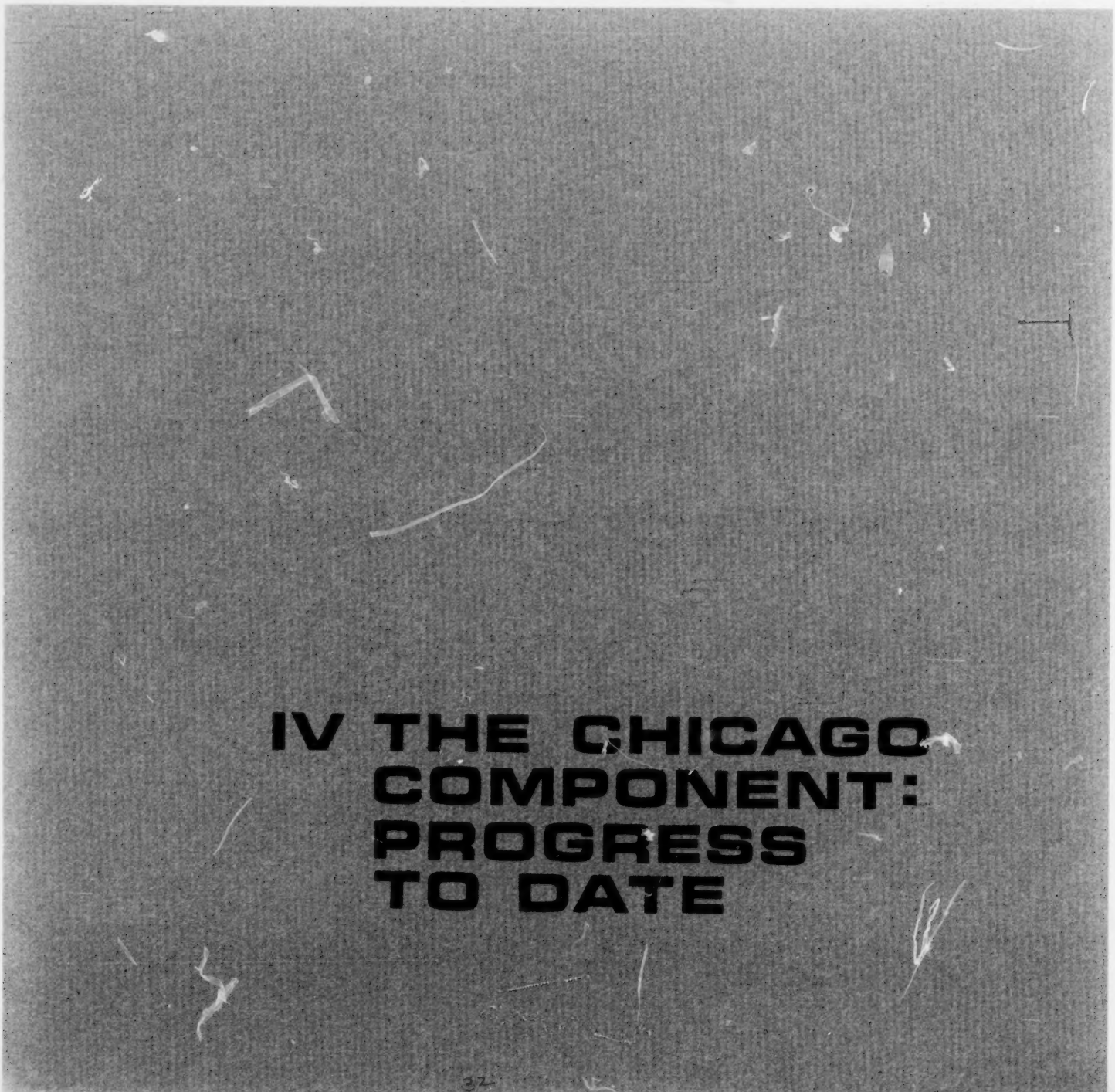

IV THE CHICAGO COMPONENT: PROGRESS TO DATE

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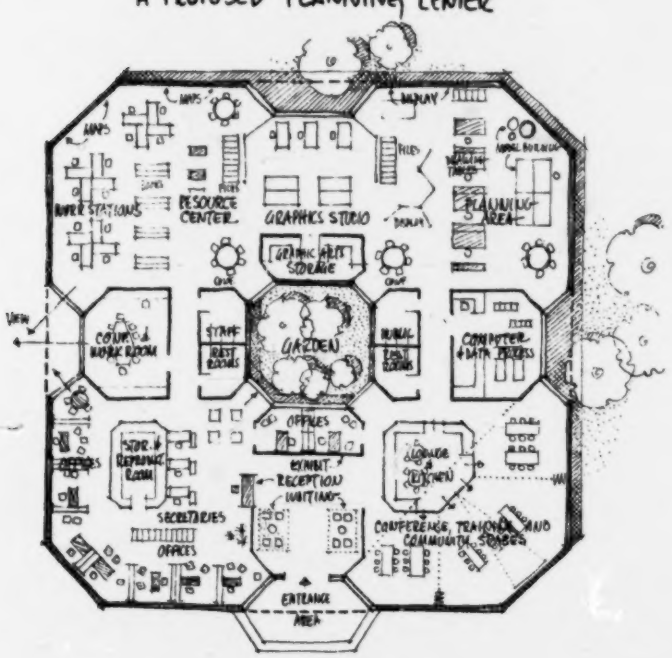
A PROPOSED PLANNING CENTER



A PRELIMINARY DESIGN BY C. WILLIAM BROWNELL

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PROGRAM: YEAR 1

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THE CHICAGO COMPONENT OF PROJECT SIMU-SCHOOL IS NOW IN THE SECOND YEAR OF OPERATION. DURING THE FIRST YEAR, EMPHASIS WAS PLACED ON SOME BASIC RESEARCH INTO THE PROCESS OF EDUCATIONAL FACILITIES PLANNING AS A FIRST STEP TOWARD THE DEVELOPMENT OF AN OPERATIONAL PLANNING CENTER.
FIVE MAJOR ACTIVITIES WERE UNDERTAKEN:

- A SURVEY OF SIMULATION GAMES AND COMPUTER SIMULATION MODELS PERTAINING TO EDUCATIONAL FACILITIES PLANNING.
- THE DEVELOPMENT OF A CONCEPTUAL MODEL OF THE EDUCATIONAL PLANNING PROCESS.
- THE DEVELOPMENT OF A PROTOTYPE SIMULATION GAME TO ILLUSTRATE THE ROLE OF CONFLICT, COMPROMISE, AND COMMUNITY INVOLVEMENT IN DECISION MAKING FOR FACILITIES PLANNING.
- A PRELIMINARY DEVELOPMENT OF A FACILITIES PLANNING SUB-SYSTEM OF A MANAGEMENT INFORMATION SYSTEM.
- THE DEVELOPMENT OF POSITION PAPERS ON SOME KEY ASPECTS OF FACILITIES PLANNING, E.G., STUDENT FLOWS, COST ANALYSIS FOR MOBILE UNITS, CHARETTES, COMMUNITY GOAL-SETTING, ETC.

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PROGRAM: YEAR 2

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DURING THE CONTINUATION PERIOD (18 MONTHS), EMPHASIS IS BEING PLACED ON THE ACTUAL DEVELOPMENT OF A PLANNING CENTER. SIX MAJOR ACTIVITIES ARE IDENTIFIED:

- DEVELOPMENT, INCLUDING DESIGN, REMODELING, AND FURNISHING, OF A PROTOTYPE SIMU-SCHOOL PLANNING CENTER.
- INITIATION OF A TRAINING COMPONENT WHICH WILL PROVIDE FOR COMMUNITY INVOLVEMENT IN THE PLANNING PROCESS AS WELL AS FOR TRAINING OF FUTURE PLANNERS.
- PRELIMINARY DEVELOPMENT OF A RESOURCE CENTER CONTAINING PLANNING LITERATURE AS WELL AS VISUAL AID MATERIAL CONCERNED WITH PLANNING.
- CONTINUED DEVELOPMENT OF A FACILITY PLANNING SUB-SYSTEM OF A MANAGEMENT INFORMATION SYSTEM.
- A FEASIBILITY STUDY FOR THE APPLICATION OF COMPUTER SIMULATION MODELS TO THE PLANNING OF EDUCATIONAL FACILITIES.
- PREPARATION OF STAFF DEVELOPMENT STUDIES ON SELECTED KEY ASPECTS OF URBAN EDUCATIONAL PLANNING AND EDUCATIONAL FACILITIES PLANNING.

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SPACE

STAFF

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- APPROXIMATELY 1500 SQUARE FEET OF SPACE HAS BEEN LEASED IN THE VICINITY OF THE BOARD OF EDUCATION AND IS CURRENTLY BEING REMODELED TO HOUSE A PROTOTYPE PLANNING CENTER. THERE IS AMPLE SPACE FOR STAFF, WORKSHOPS, AND PLANNING INFORMATION.

- THE PROJECT IS UNDER THE OVER-ALL DIRECTION OF DR. JOSEPH P. HANNON, ASSISTANT SUPERINTENDENT OF FACILITIES PLANNING, WHO IS ASSISTED BY A SMALL IN-HOUSE STAFF.

  IN ADDITION, SOME STAFF MEMBERS FROM THE DEPARTMENTS OF FACILITIES PLANNING, OPERATIONS ANALYSIS, AND FINANCIAL PLANNING OF THE CHICAGO BOARD OF EDUCATION ASSIST PROJECT STAFF ON AN AD HOC BASIS.

  DRS. DONALD J. LEU, DEAN OF THE SCHOOL OF EDUCATION AT CALIFORNIA STATE UNIVERSITY, AND VERNON L. FEIOCK OF FEIOCK ASSOCIATES, PALO ALTO, CALIFORNIA, SERVE AS PROJECT CONSULTANTS.

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TEXT	JOSEPH P. HANNON DONALD J. LEU ASHRAF S. MANJI
LAYOUT	NORA V.L. FLING